### In the Specification:

Please amend the specification as shown:

Please delete the sequence on page 48, lines 7-11, and replace it with the following sequence:

(Sequence ID No. 28)

Please delete the sequence on pages 49 and 50, and replace it with the following sequence:

### 30 KD DNA SEQUENCE

# (Nucleotide sequence and encoded protein are SEQ ID NOS 35 and 161, respectively)

1/1										31/1	_		
ATG	ACA	GAC	GTG	AGC	CGA	AAG	ATT	CGA	GCT	TGG	GGA	CGC	CGA
met	thr	asp	val	ser	arg	lys	ile	arg	ala	trp	gly	arg	arg
						61/2							
TTG	ATG	ATC	GGC	ACG	GCA	GCG	GCT	GTA	GTC	CTT	CCG	GGC	CTG
leu	met	ile	gly	thr	ala	ala	ala	val	val	leu	pro	gly	leu
		91/3	31										
GTG	GGG	CTT	GCC	GGC	GGA	GCG	GCA	ACC	GCG	GGC	GCG		
val	gly	leu	ala	gly			ala	thr	ala	gly	ala		
121,	/41				151,								
TTC	TCC	CGG	CCG	GGG	CTG	CCG	GTC	GAG	TAC	CTG	CAG	GTG	CCG
phe	ser	arg	pro	gly	leu	pro	val	glu	tyr	leu	gln	val	pro
_						181,	/61						
TCG	CCG	TCG	ATG	GGC	CGC	GAC	ATC	AAG	GTT	CAG	TTC	CAG	AGC
ser	pro	ser	met	gly	arg	asp	ile	lys	val	gln	phe	gln	ser
	211,	/71										241,	
GGT	GGG	AAC	AAC	TCA	CCT	GCG	GTT	TAT	CTG	CTC	GAC	GGC	CTG
gly	gly	asn	asn	ser	pro	ala	val	tyr	leu	leu	asp	gly	leu
-								271					
CGC	GCC	CAA	GAC	GAC	TAC	AAC	GGC	TGG	GAT	ATC	AAC	ACC	CCG
arg	ala	gln	asp	asp	tyr	asn	gly	trp	asp	ile	asn	thr	pro
_				301	/101								

```
GCG TTC GAG TGG TAC TAC CAG TCG GGA CTG TCG ATA GTC ATG
ala phe glu trp tyr tyr gln ser gly leu ser ile val met
                                        361/121
331/111
CCG GTC GGC GGG CAG TCC AGC TTC TAC AGC GAC TGG TAC AGC
pro val gly gly gln ser ser phe tyr ser asp trp tyr ser
                        391/131
CCG GCC TGC GGT AAG GCT GGC TGC CAG ACT TAC AAG TGG GAA
pro ala cys gly lys ala gly cys gln thr tyr lys trp glu
                                                 451/151
        421/141
ACC TTC CTG ACC AGC GAG CTG CCG CAA TGG TTG TCC GCC AAC
thr phe leu thr ser glu leu pro gln trp leu ser ala asn
                                481/161
AGG GCC GTG AAG CCC ACC GGC AGC GCT GCA ATC GGC TTG TCG
arg ala val lys pro thr gly ser ala ala ile gly leu ser
            511/171
ATG GCC GGC TCG TCG GCA ATG ATC TTG GCC GCC TAC CAC CCC
met ala gly ser ser ala met ile leu ala ala tyr his pro
                                         571/191
541/181
CAG CAG TTC ATC TAC GCC GGC TCG CTG TCG GCC CTG CTG GAC
gln gln phe ile tyr ala gly ser leu ser ala leu leu asp
                        601/201
CCC TCT CAG GGG ATG GGG CCT AGC CTG ATC GGC CTC GCG ATG
pro ser gln gly met gly pro ser leu ile gly leu ala met
                                                 661/221
        631/211
GGT GAC GCC GGT TAC AAG GCC GCA GAC ATG TGG GGT CCC
gly asp ala gly gly tyr lys ala ala asp met trp gly pro
                                 691/231
TCG AGT GAC CCG GCA TGG GAG CGC AAC GAC CCT ACG CAG CAG
ser ser asp pro ala trp glu arg asn asp pro thr gln gln
                721/241
ATC CCC AAG CTG GTC GCA AAC AAC ACC CGG CTA TGG GTT TAT
ile pro lys leu val ala asn asn thr arg leu trp val tyr
                                         781/261
751/251
TGC GGG AAC GGC ACC CCG AAC GAG TTG GGC GGT GCC AAC ATA
cys gly asn gly thr pro asn glu leu gly gly ala asn ile
                         811/271
CCC GCC GAG TTC TTG GAG AAC TTC GTT CGT AGC AGC AAC CTG
pro ala glu phe leu glu asn phe val arg ser ser asn leu
                                                 871/291
        841/281
AAG TTC CAG GAT GCG TZAC AAC GCC GCG GGC GGG CAC AAC GCC
lys phe gln asp ala tyr asn ala ala gly gly his asn ala
                                 901/301
GTG TTC AAC TTC CCG CCC AAC GGC ACG CAC AGC TGG GAG TAC
val phe asn phe pro pro asn gly thr his ser trp glu tyr
                 931/311
TGG GGC GCT CAG CTC AAC GCC ATG AAG GGT GAC CTG CAG AGT
 trp gly ala gln leu asn ala met lys gly asp leu gln ser
 961/321
TCG TTA GGC GCC GGC TGA
                           (Sequence ID No. 35)
 ser leu gly ala gly OPA
```

Please delete the sequence on pages 50 to 53, and replace it with the following sequence:

### 32 KD DNA SEQUENCE

# (Nucleotide sequence and encoded protein are SEQ ID NOS 36 and 162, respectively)

1: /1			31/11						
1/1 ATG CAG CTT GTT (	ርእር እርር ርጥጥ								
met gln leu val	anc arg wal	ard alv ala	val thr gly met						
met gin led val a	61/2		var enr gry mer						
TCG CGT CGA CTC GTG GTC GGG CCC CTC CCC CCC GGG CTA CTG									
TCG CGT CGA CTC	CTC CTC GGG	GCC GTC GGC	GCG GCC CTA GTG						
cor arg arg leu	val val glv	ala val glv	ala ala leu val						
ser arg arg leu val val gly ala val gly ala ala leu val 91/31 121/41									
TCGC GGT CTG GTC GGC GCC GTC GGT GGC ACG GCG ACC GCG GGG									
ser gly leu val gly ala val gly gly thr ala thr ala gly									
151/51									
GCA TTT TCC CGG	CCG GGC TTG	CCG GTG GAG	TAC CTG CAG GTG						
ala phe ser arg	pro gly leu	pro val glu	tyr leu gln val						
	181/61								
CCG TCG CCG TCG	ATG GGC CGT	GAC ATC AAG	GTC CAA TTC CAA						
pro ser pro ser	met gly arg	asp ile lys	val gln phe gln						
211/71			241/81						
AGT GGT GGT GCC	AAC TCG CCC	GCC CTG TAC	CTG CTC GAC GGC						
ser gly gly ala	asn ser pro	ala leu tyr	leu leu asp gly						
	271/								
CTG CGC GCG CAG	GAC GAC TTC	AGC GGC TGG	GAC AIC AAC ACC						
leu arg ala gln	asp asp pne	ser gry trp	331/111						
301/101 CCG GCG TTC GAG	mcc mac cac	כאכ שככ כככ							
pro ala phe glu	TGG TAC GAC	aln ser alv	len ser val val						
pro ala pne giu	crb car ash	361/121	ied ber var var						
ATG CCG GTG GGT	CCC CAG TCA		TCC GAC TGG TAC						
met pro val gly	alv aln ser	ser phe tvr	ser asp trp tyr						
wer bro var dry	391/131	2 2							
CAG CCC GCC TGC	GGC AAG GCC	GGT TGC CAG	ACT TAC AAG TGG						
gln pro ala cys	gly lys ala	gly cys gln	thr tyr lys trp						
421/141			451/151						
GAG ACC TTC CTG	ACC ACC CAC	-CTC-CCC-CGG	TGG CTC GAC CCC						
GAG ACC TTC CTG	ACC AGC GAG	CTG CCG GGG	TGG CTG CAG GCC						
glu thr phe leu	thr ser glu	leu pro gly	trp leu gln ala						
	481,	/161	oma oma oce cem						
AAC AGG CAC GTC	AAG CCC ACC	GGA AGC GCC	GTC GTC GGT CTT						
		gly ser ala	val val gly leu						
511/	/171	OMC NOC OMC	541/181						
TCG ATG GCT GCT	TCT TCG GCG	CTG ACG CTG	GCG ATC TAT CAC						
ser met ala ala	ser ser ala	571/101	ala ile tyr his						
000 030 030 mmc	כשכ שאכ כככ	571/191	TCG GGC CTG TTG						
CCC CAG CAG TTC	GIC TAC GCG	alv ala met	ser gly leu leu						
bro dru dru bue	601/201	gry ara met	DOI GLY TOU TOU						
כאר ככר שכר כאר	CCC ATC CCT	CCC ACC CTG	ATC GGC CTG GCG						
ash hro ser aln	ala met glv	pro thr leu	ile gly leu ala						
631/211	ara mee gry	F = 2 2= 2	661/221						
VV-/ L++									

```
ATG GGT GAC GCT GGC GGC TAC AAG GCC TCC GAC ATG TGG GGC
met gly asp ala gly gly tyr lys ala ser asp met trp gly
                        691/231
CCG AAG GAG GAC CCG GCG TGG CAG CGC AAC GAC CCG CTG TTG
pro lys glu asp pro ala trp gln arg asn asp pro leu leu
                                                 751/251
        721/241
AAC GTC GGG AAG CTG ATC GCC AAC AAC ACC CGC GTC TGG GTG
asn val gly lys leu ile ala asn asn thr arg val trp val
                                 781/261
TAC TGC GGC AAC GGC AAG CCG TCG GAT CTG GGT GGC AAC AAC
tyr cys gly asn gly lys pro ser asp leu gly gly asn asn
                811/271
CTG CCG GCC AAG TTC CTC GAG GGC TTC GTG CGG ACC AGC AAC
leu pro ala lys phe leu glu gly phe val arg thr ser asn
                                 871/291
ATC AAG TTC CAA GAC GCC TAC AAC GCC GGT GGC GGC CAC AAC
ile lys phe gln asp ala tyr asn ala gly gly gly his asn
                        901/301
GGC GTG TTC GAC TTC CCG GAC AGC GGT ACG CAC AGC TGG GAG
gly val phe asp phe pro asp ser gly thr his ser trp glu
                                                 961/321
        931/311
TAC TGG GGC GCG CAG CTC AAC GCT ATG AAG CCC GAC CTG CAA
tyr trp gly ala gln leu asn ala met lys pro asp leu gln
                                 991/331
CGG GCA CTG GGT GCC ACG CCC AAC ACC GGG CCC GCG CCC CAG
arg ala leu gly ala thr pro asn thr gly pro ala pro gln
GGC GCC TAG
                               (Sequence ID No. 36)
gly ala AMB
```

Please delete the header on page 52, line 12, and replace it with the following header:

#### 16 KD DNA SEQUENCE

## (Nucleotide and encoded protein are SEQ ID NOS 92 and 163, respectively)

Please delete the header on page 52, line 38, and replace it with the following header:

#### 58 KD DNA SEQUENCE

## (Nucleotide and encoded protein are SEQ ID NOS 93 and 164, respectively)

Please delete the sequence on page 54, lines 1-38, and replace it with the following sequence:

#### 23.5 KD DNA SEQUENCE

## (Nucleotide and encoded protein are SEQ ID NOS 94 and 165, respectively)

```
31/11
GTG CGC ATC AAG ATC TTC ATG CTG GTC ACG GCT GTC GTT TTG CTC TGT TGT TCG GSGT GTG
val arg ile lys ile phe met leu val thr ala val leu leu cys cys ser gly val
                                        91/31
61/21
GCC ACG GCC GCG CCC AAG ACC TAC TGC GAG GAG TTG AAA GGC ACC GAT ACC GGC CAG GCG
ala thr ala ala pro lys thr tyr cys glu glu leu lys gly thr asp thr gly gln ala
                                        151/51
121/41
TGC CAG ATT CAA ATG TCC GAC CCG GCC TAC AAC ATC AAC ATC AGC CTG CCC AGT TAC TAC
cys gln ile gln met ser asp pro ala tyr asn ile asn ile ser leu pro ser tyr tyr
                                        211/71
181/61
CCC GAC CAG AAG TCG CTG GAA AAT TAC ATC GCC CAG ACG CGC GAC AAG TTC CTC AGC GCG
pro asp gln lys ser leu glu asn tyr ile ala gln thr arg asp lys phe leu ser ala
                                        271/91
241/81
GCC ACA TCG TCC ACT CCA CGC GAA GCC CCC TAC GAA TTG AAT ATC ACC TCG GCC ACA TAC
ala thr ser ser thr pro arg glu ala pro tyr glu leu asn ile thr ser ala thr tyr
                                        331/111
301/101
CAG TCC GCG ATA CCG CCG CGT GGT ACG CAG GCC GTG GTG CTC AAG GTC TAC CAG AAC GCC
gln ser ala ile pro pro arg gly thr gln ala val val leu lys val tyr gln asn ala
                                        391/131
361/121
GGC GGC ACG CAC CCA ACG ACC ACG TAC AAG GCC TTC GAT TGG GAC CAG GCC TAT CGC AAG
gly gly thr his pro thr thr thr tyr lys ala phe asp trp asp gln ala tyr arg lys
                                        451/151
421/141
CCA ATC ACC TAT GAC ACG CTG TGG CAG GCT GAC ACC GAT CCG CTG CCA GTC GTC TTC CCC
pro ile thr tyr asp thr leu trp gln ala asp thr asp pro leu pro val val phe pro
                                        511/171
481/161
ATT GTG CAA GGT GAA CTG AGC AAG CAG ACC GGA CAA CAG GTA TCG ATA GCG CCG AAT GCC
ile val gln gly glu leu ser lys gln thr gly gln gln val ser ile ala pro asn ala
                                        571/191
541/181
GGC TTG GAC CCG GTG AAT TAT CAG AAC TTC GCA GTC ACG AAC GAC GGG GTG ATT TTC TTC
gly leu asp pro val asn tyr gln asn phe ala val thr asn asp gly val ile phe phe
                                        631/211
TTC AAC CCG GGG GAG TTG CTG CCC GAA GCA GCC GGC CCA ACC CAG GTA TTG GTC CCA CGT
phe asn pro gly glu leu leu pro glu ala ala gly pro thr gln val leu val pro arg
661/221
TCC GCG ATC GAC TCG ATG CTG GCC TAG
ser ala ile asp ser met leu ala AMB
```

(Sequence ID No. 94)

Please delete the header on page 54, line 39, and replace it with the following header:

# 24 KD DNA SEQUENCE (Nucleotide and encoded protein are SEQ ID NOS 95 and 166, respectively)

Please delete the paragraph on page 111, lines 11-16, and replace it with the following paragraph:

An N-terminal amino acid analysis of recombinant *Mycobacterium* tuberculosis 32A KD protein expressed and secreted by *Mycobacterium* smegmatis at 28°C gives the following sequence:

1 6

FSRPG LP (SEQ ID NO: 167)